

IN THE CLAIMS:

1 1. (PREVIOUSLY PRESENTED) A method of transferring ownership of a volume com-
2 prising a plurality of disks from a source file server to a destination file server comprising
3 the steps of:

4 changing ownership information stored in each of the plurality of disks to an un-
5 owned state from a state of source file server ownership; and

6 changing ownership information stored in each of the plurality of disks to a state of
7 destination file server ownership from the un-owned state.

1 2. (PREVIOUSLY PRESENTED) The method of claim 1 wherein the step of changing
2 ownership information stored in each of the plurality of disks to an un-owned state fur-
3 ther comprises the steps of:

4 changing a first ownership attribute of the disks to an un-owned state; and
5 changing a second ownership attribute of the disks to an un-owned state

1 3. (PREVIOUSLY PRESENTED) The method of claim 1 wherein the step of changing
2 ownership information stored in each of the disks to a destination file server ownership
3 further comprises the steps of:

4 changing a first ownership attribute of the disks to a destination file server state;
5 and

6 changing a second ownership attribute of the disks to a destination file server
7 state.

1 4. (PREVIOUSLY PRESENTED) A method for transferring ownership of a volume hav-
2 ing a plurality of disks, the method comprising the steps of:
3 sending a first message to a source file server, the message containing a request
4 for transferring ownership of a volume of disks;
5 receiving a response from the source file server;
6 if the response contains abort information, aborting the transfer;
7 if not, verifying that the volume can be transferred;
8 if the volume can be transferred, sending a second message to the source file
9 server to perform the first part of a transfer process to transfer ownership from the source
10 file server to an un-owned state;
11 receiving a response from the source file server after it performed the first part of
12 the transfer process; and
13 in response to the step of receiving, performing a second part of the transfer proc-
14 ess to transfer ownership from the un-owned state to a destination file server.

1 5. (ORIGINAL) The method of claim 4 wherein the second part of the transfer process
2 further comprises the steps of:
3 changing a first ownership attribute of the disks to a destination file server state;
4 and
5 changing a second ownership attribute of the disks to a destination file server
6 state.

1 6. (PREVIOUSLY PRESENTED) A method for transferring ownership of a volume hav-
2 ing a plurality of disks comprising the steps of:
3 verifying that the disks can be transferred in response to an initial request from a
4 destination file server;

5 sending an acknowledgement by the source file server to the destination file
6 server;
7 receiving a second-request from the destination file server;
8 aborting if the second-request contains abort information;
9 changing the volume to an off-line status in response to the second-request not
10 containing abort information;
11 performing a first part of a transfer process, the first part of the transfer process
12 being transferring ownership from the source file server to an un-owned state; and
13 sending a message to the destination file server to prompt a second part of the
14 transfer process, the second part of the transfer process being transferring ownership from
15 the un-owned state to the destination server.

1 7. (ORIGINAL) The method of claim 6 wherein the first part of the transfer process fur-
2 ther comprises the steps of:

3 changing a first ownership attribute of the disks to an un-owned state; and
4 changing a second ownership attribute of the disks to an un-owned state.

1 8. (ORIGINAL) A method of transferring ownership of a volume having a plurality of
2 disks comprising the steps of:

3 writing a first destination log file;
4 verifying that the plurality of disks can be transferred;
5 writing a first source log file;
6 verifying that the volume can be accepted by the destination;
7 writing a second destination log file;
8 writing a second source log file
9 performing a first part of a transfer process;
10 writing a third source log file;

11 writing a third destination log file;
12 performing a second part of the transfer process; and
13 erasing the previously written logs.

1 9. (PREVIOUSLY PRESENTED) A method of transferring ownership of a volume hav-
2 ing a plurality of disks comprising the steps of:
3 writing a first log file to record a first part of a transfer process;
4 performing the first part of the transfer process, the first part of the transfer proc-
5 ess being changing ownership information stored on each disk of the volume from a
6 source server to an un-owned state;
7 writing a second log file to record a second part of the transfer process; and
8 performing the second part of the transfer process, the second part of the transfer
9 process being changing ownership information stored on each from the un-owned state to
10 a destination server.

1 10. (ORIGINAL) A computer-readable medium for modifying ownership of disks rela-
2 tive to a source file server and a destination file server, the computer-readable medium
3 including instructions for performing the steps of:
4 in the source file server, moving the disks from a source-owned state to an un-
5 owned state; and
6 in the destination file server, moving the disks from the un-owned state to a desti-
7 nation-owned state.

1 11. (ORIGINAL) The computer-readable medium of claim 10 wherein the step of mov-
2 ing the disks to an un-owned state further comprises the steps of:
3 changing first ownership attribute of the disks to an un-owned state; and

4 changing a second ownership attribute of the disks to an un-owned state.

1 12. (ORIGINAL) The computer-readable medium of claim 10 wherein the step of mov-
2 ing the disks from an un-owned state to a destination-owned state further comprises the
3 steps of:

4 changing first ownership attribute of the disks to a destination-owned state; and
5 changing a second ownership attribute of the disks to a destination-owned state.

1 13. (PREVIOUSLY PRESENTED) A system for transferring ownership of a volume
2 having a disk from a source file server to a destination file server, the system comprising:
3 means for changing ownership information stored in each of the disk from a state
4 of source file server ownership to an un-owned state; and
5 means for changing ownership information stored in each the disk from an un-
6 owned state to a destination file server-owned state.

1 14. (PREVIOUSLY PRESENTED) The system of claim 13 wherein the means for
2 changing ownership information from a state of source file server ownership to an un-
3 owned state further comprises:
4 means for changing ownership information stored in a predetermined sector of the
5 disk to an un-owned state; and
6 means for changing small computer system interface level 3 reservation of the
7 disk to an un-owned state.

1 15. (PREVIOUSLY PRESENTED) The system of claim 13 wherein the means for
2 changing ownership information from an un-owned state to a destination file server-
3 owned state further comprises:

4 means for changing ownership information stored in a predetermined sector of the
5 disk to a destination file server-owned state; and

6 means for changing small computer system interface level 3 reservation of the
7 disk to a destination file server-owned state.

1 16. (PREVIOUSLY PRESENTED) A method of transferring ownership of a volume hav-
2 ing a plurality of disks from a source file server to a destination file server, the method
3 comprising the steps of:

4 changing a first attribute of ownership from source server ownership to an un-
5 owned state by writing the change to a log file and rewriting the first attribute of owner-
6 ship on the disk;

7 changing a second attribute of ownership from source ownership to an un-owned
8 state by writing the change to a log file and rewriting the second attribute of ownership
9 on the disk;

10 changing the first attribute of ownership from the un-owned state of ownership to
11 destination server ownership by writing the change to a log file and rewriting the first at-
12 tribute of ownership on the disk; and

13 changing the second attribute of ownership from the un-owned state to destination
14 server ownership by writing the change to a log file and rewriting the second attribute of
15 ownership on the disk.

1 17. (PREVIOUSLY PRESENTED) The method of claim 16, further comprising:

2 in the event of a failure during the process of transferring ownership, utilizing the
3 log files to continue the process of changing ownership.

1 18. (PREVIOUSLY PRESENTED) A system to transfer ownership of a volume having a
2 plurality of disks from a source file server to a destination file server, comprising:

3 means for changing a first attribute of ownership from source server ownership to
4 an un-owned state by writing the change to a log file and rewriting the first attribute of
5 ownership on the disk;

6 means for changing a second attribute of ownership from source ownership to an
7 un-owned state by writing the change to a log file and rewriting the second attribute of
8 ownership on the disk;

9 means for changing the first attribute of ownership from the un-owned state of
10 ownership to destination server ownership by writing the change to a log file and rewrit-
11 ing the first attribute of ownership on the disk; and

12 means for changing the second attribute of ownership from the un-owned state to
13 destination server ownership by writing the change to a log file and rewriting the second
14 attribute of ownership on the disk.

1 19. (PREVIOUSLY PRESENTED) The system of claim 18, further comprising:

2 in the event of a failure during the process of transferring ownership, means for
3 utilizing the log files to continue the process of changing ownership.

1 20. (PREVIOUSLY PRESENTED) A system to transfer ownership of a volume having a
2 plurality of disks from a source file server to a destination file server, comprising:

3 a first computer to change a first attribute of ownership from source server owner-
4 ship to an un-owned state by writing the change to a log file and rewriting the first attrib-
5 ute of ownership on the disk;

6 a second computer to change a second attribute of ownership from source owner-
7 ship to an un-owned state by writing the change to a log file and rewriting the second at-
8 tribute of ownership on the disk;

9 a third computer to change the first attribute of ownership from the un-owned
10 state of ownership to destination server ownership by writing the change to a log file and
11 rewriting the first attribute of ownership on the disk; and
12 a fourth computer to change the second attribute of ownership from the un-owned
13 state to destination server ownership by writing the change to a log file and rewriting the
14 second attribute of ownership on the disk.

1 21. (PREVIOUSLY PRESENTED) The system of claim 20, further comprising:
2 in the event of a failure during the process of transferring ownership, a computer
3 to utilize the log files to continue the process of changing ownership.

1 22. (PREVIOUSLY PRESENTED) The system of claim 20, further comprising:
2 the first computer, the second computer, the third computer, and the fourth com-
3 puter are a single computer.

1 23. (PREVIOUSLY PRESENTED) The system of claim 22, further comprising:
2 the single computer is the destination server.

1 24. (PREVIOUSLY PRESENTED) The system of claim 20, further comprising:
2 the first computer and the second computer are the source server.

1 25. (PREVIOUSLY PRESENTED) The system of claim 20, further comprising:
2 the third computer and the fourth computer are the destination server.

1 26. (PREVIOUSLY PRESENTED) The method of claim 2 wherein the first ownership
2 attribute is stored on a predetermined sector of each disk.

1 27. (PREVIOUSLY PRESENTED) The method of claim 2 wherein the second owner-
2 ship attribute is a small computer system interface (SCSI) persistent reservation tag.